Amendments to the Claims Pursuant to 37 C.F.R. § 1.121 Revised Format

We claim:

1. (currently amended) A compound of the formula:

$$R^{1} = \begin{bmatrix} R^{8} & R^{6} \\ C & C \\ R^{5} & R^{7} \\ R^{7} & Q \end{bmatrix} = R^{2}$$

wherein

B is CONR^a, NR^aCO, NR^aCO₂ or NR^aCONR^a; R^a represents hydrogen or (1-6C) alkyl, q is zero or 1;

R¹ represents a naphthyl group or a phenyl, furyl, thienyl or pyridyl group which is unsubstituted or substituted by one or two substituents selected independently from halogen; nitro; cyano; hydroxyimino; (1-10C)alkyl; (2-10C)alkenyl; (2-10C)alkynyl; (3-8C)cycloalkyl; hydroxy(3-8C)eycloalkyl; oxo(3-8C)cycloalkyl; halo(1-10C)alkyl; (CH2)_vX¹R⁹ in which y is 0 or an integer of from 1 to 4, X¹ represents O, S, NR¹⁰, CO, COO, OCO, CONR¹¹, NR¹²CO, NR¹²COCOO or OCONR¹³, R⁹ represents hydrogen, (1–10C)alkyl, (3-10C)alkenyl, (3-10C)alkynyl, pyrrolidinyl, tetrahydrofuryl, morpholino or (3-8C)cycloalkyl and R¹⁰, R¹¹, R¹² and R¹³ each independently represents hydrogen or (1-10C)alkyl, or R⁹ and R¹⁰, R¹¹, R¹² or R¹³ together with the nitrogen atom to which they are attached form an azetidinyl, pyrrolidinyl, piperidinyl or morpholino group; N-(1-4C)alkylpiperazinyl; Nphenyl(1-4C)alkylpiperazinyl; thienyl; furyl; oxazolyl; isoxazolyl; pyrazolyl; imidazolyl; thiazolyl; pyridyl; pyridazinyl; pyrimidinyl; dihydro-thienyl; dihydrofuryl; dihydrothiopyranyl; dihydropyranyl; dihydrothiazolyl; (1-4C)alkoxycarbonyldihydrothiazolyl; (1-4C)alkoxycarbonyldimethyldihydrothiazolyl; tetrahydro-thienyl; tetrahydrofuryl; tetrahydrothiopyranyl; tetrahydropyranyl; indolyl; benzofuryl; benzothienyl; benzimidazolyl; and a group of formula R¹⁴-(L^a)n-X²-(L^b)m-in

which X² represents a bond, O, NH, S, SO, SO₂, CO, CH(OH), CONH, NHCO, NHCONH, NHCOO, COCONH, OCH2CONH or CH-CH, La and Lb each represent (1-4C)alkylene, one of n and m is 0 or 1 and the other is 0, and R¹⁴ represents a phenyl or heterogramatic group which is unsubstituted or substituted by one or two of halogen, nitro, eyano, hydroxyimino, (1-10C) alkyl, (2-10C)alkenyl, (2-10C)alkynyl, (3-8C) cycloalkyl, 4-(1,1dioxotetrahydro-1,2-thiazinyl), halo(1-10C)alkyl, cyano(2-10C)alkenyl, phenyl, and (CH₂)_zX³R¹⁵ in which z is 0 or an integer of from 1 to 4, X³ represents O. S. NR¹⁶, CO. CH(OH), COO, OCO, CONR¹⁷, NR¹⁸CO, NHSO₂, NHSO₂NR¹⁷, NHCONH, OCONR¹⁹ or NR¹⁹COO, R¹⁵ represents hydrogen, (1-10C)alkyl, phenyl(1-4C)alkyl, halo(1-10C)alkyl, (1-4C)alkoxycarbonyl(1-4C)alkyl, (1-4C)alkylsulfonylamino(1-4C)alkyl, (N-(1-4C)alkyl) 4C)alkoxycarbonyl)(1-4C)alkylsulfonylamino (1-4C)alkyl, (3-10C)alkenyl, (3-10C)alkynyl, (3-8C) cycloalkyl, camphoryl or an aromatic or heteroaromatic group which is unsubstituted or substituted by one or two of halogen, (1-4C)alkyl, halo(1-4C)alkyl, di(1-4C)alkylamino and (1-4C)alkoxy and R¹⁶, R¹⁷, R¹⁸ and R¹⁹ each independently represents hydrogen or (1-10C)alkyl, or R¹⁵ and R¹⁶, R¹⁷, R¹⁸ or R¹⁹ together with the nitrogen atom to which they are attached form an azetidinyl, pyrrolidinyl, piperidinyl or morpholino group;

R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-6C)alkyl, chloro(1-6C)alkyl, (2-6C)alkenyl, (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkylCO₂(1-4C)alkyl, phenyl(1-6C)alkyl, heteroaromatic, phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy, or a group of formula R³R⁴N in which R³ and R⁴ each independently represents (1-4C)alkyl or, together with the nitrogen atom to which they are attached form an azetidinyl, pyrrolidinyl, piperidinyl, morpholino, piperazinyl, hexahydroazepinyl or octahydroazocinyl group;—and

R⁵, R⁶, and R⁷ represent hydrogen;

R⁸ represents methyl;

R⁵, R⁶, R⁷-and R⁸-are each independently selected from the group consisting of hydrogen, (1-6C)alkyl; aryl(1-6C)alkyl; (2-6C)alkenyl; aryl(2-6C)alkenyl and aryl; or

two of R⁵, R⁶, R⁷ and R⁸ together with the carbon atom or carbon atoms to which they are attached form a (3-8C) carbocyclic ring; and the remainder of R⁵, R⁶, R⁷ and R⁸ represent hydrogen; or a pharmaceutically acceptable salt thereof; with the proviso that when R² represents R³R⁴N, then B is other than NR^aCONR^a or CONR^a.

- 2. (original) A compound according to claim 1 wherein B is CONR^a.
- 3. (original) A compound according to claim 1 wherein B is NR^aCO.
- 4. (original) A compound according to claim 1 wherein B is NR^aCO₂.
- 5. (original) A compound according to claim 1 wherein B is NR^aCONR^a.
- 6. (cancelled)
- 7. (currently amended) A compound as claimed in <u>claim 1</u> any one of claims 1 to 5 wherein R^a is hydrogen.
- 8. (currently amended) A compound as claimed in claim 1 any one of claims 1-to 5 wherein R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-6C)alkyl, chloro(1-6C)alkyl, (2-6C)alkenyl 1-4C)alkoxy(1-4C)alkyl, heteroaromatic, or phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy.
- 9. (currently amended) A compound according to claim 8 wherein R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl or heteroaromatic, or phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy.
- 10. (currently amended) A compound according to claim 9 wherein R² represents methyl, ethyl, isopropyl, t-butyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, isovaleryl, phenyl, <u>or</u> benzyl. , <u>2-furyl, 2-thienyl, 5-oxazoyl, 2-pyridyl, 3-pyridyl, 4-pryidyl</u>
 - 11. (cancelled)

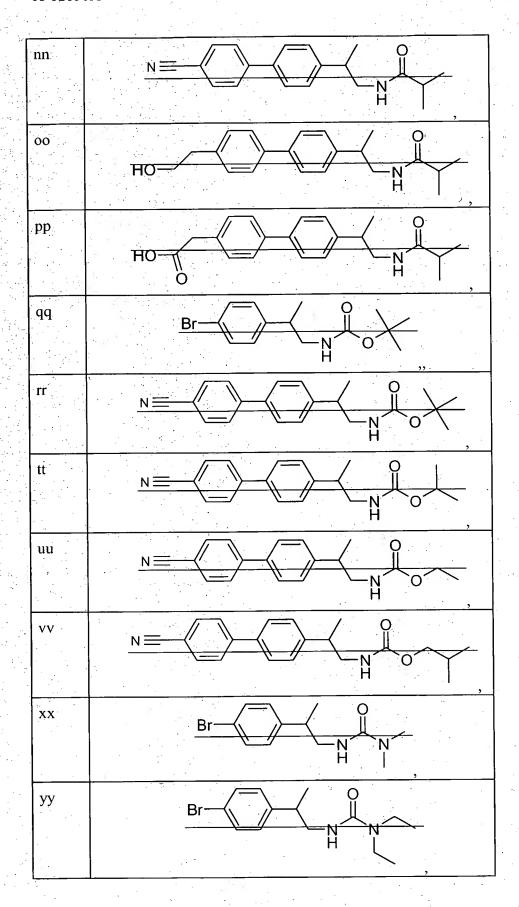
- 12. (cancelled)
- 13. (cancelled)
- 14. (currently amended) A compound as claimed in Claim 1, which is selected from:

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pharmaceutically acceptable salts thereof.

- 15. (original) A pharmaceutical composition, which comprises a compound as claimed in claim 1 and a pharmaceutically acceptable diluent or carrier.
- 16. (currently amended) A method of potentiating glutamate receptor function in a mammal requiring such treatment, which comprises administering an effective amount of a compound of formula:

wherein

B is CONR^a, NR^aCO, NR^aCO₂ or NR^aCONR^a;

R^a represents hydrogen or (1-6C) alkyl,

q is zero or 1;

R¹ represents an unsubstituted or substituted aromatic or heteroaromatic group a phenyl substituted by thienyl;

R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-6C)alkyl, chloro(1-6C)alkyl, (2-6C)alkenyl, (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkylCO₂(1-4C)alkyl, phenyl(1-6C)alkyl, heteroaromatic, phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy, or a group of formula R³R⁴N in which R³ and R⁴-each independently represents (1-4C)alkyl or, together with the nitrogen atom to which they are attached form an azetidinyl,

pyrrolidinyl, piperidinyl, morpholino, piperazinyl, hexahydroazepinyl or octahydroazocinyl group; and

R⁵, R⁶, and R⁷ represent hydrogen;

R⁸ represents methyl;

R⁵, R⁶, R⁷-and R⁸ are each independently selected from the group consisting of hydrogen, (1-6C)alkyl; aryl(1-6C)alkyl; (2-6C)alkenyl; aryl(2-6C)alkenyl and aryl; or

two of R^5 , R^6 , R^7 and R^8 together with the carbon atom or carbon atoms to which they are attached form a (3-8C) carbocyclic ring; and the remainder of R^5 , R^6 , R^7 and R^8 represent hydrogen; or a pharmaceutically acceptable salt thereof. with the proviso that when R^2 represents R^3R^4N , then B is other than NR^6CONR^6 or

17. (cancelled)

18. (currently amended) A method of treating a cognitive disorder; a neuro-degenerative disorder; age-related dementia; age-induced memory impairment; movement disorder; reversal of a drug-induced state; depression; attention deficit disorder; attention deficit hyperactivity disorder; psychosis; cognitive deficits associated with psychosis; or drug-induced psychosis in a patient, which comprises administering to a patient in need thereof an effective amount of a compound of formula:

$$R^{1} - C - C - B - R^{2}$$
 $R^{5} - C - B - R^{2}$

wherein

CONR^a-

B is CONR^a, NR^aCO, NR^aCO₂ or NR^aCONR^a;

R^a represents hydrogen or (1-6C) alkyl,

q is zero or 1;

R¹ represents an unsubstituted or substituted aromatic or heteroaromatic group a phenyl substituted by thienyl;

R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-6C)alkyl, chloro(1-6C)alkyl, (2-6C)alkenyl, (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkylCO₂(1-4C)alkyl, phenyl(1-6C)alkyl, heteroaromatic, phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy, or a group of formula R³R⁴N in which R³ and R⁴ each independently represents (1-4C)alkyl or, together with the nitrogen atom to which they are attached form an azetidinyl, pyrrolidinyl, piperidinyl, morpholino, piperazinyl, hexahydroazepinyl or octahydroazocinyl group; and

R⁵, R⁶, and R⁷ represent hydrogen;

R⁸ represents methyl;

R⁵, R⁶, R⁷ and R⁸ are each independently selected from the group consisting of hydrogen, (1-6C)alkyl; aryl(1-6C)alkyl; (2-6C)alkenyl; aryl(2-6C)alkenyl and aryl; or

two of R⁵, R⁶, R⁷ and R⁸ together with the carbon atom or carbon atoms to which they are attached form a (3-8C) carbocyclic ring; and the remainder of R⁵, R⁶, R⁷ and R⁸ represent hydrogen; or a pharmaceutically acceptable salt thereof.

with the proviso that when R²-represents R³R⁴N, then B is other than NR^aCONR^a or CONR^a.

- 19. (cancelled)
- 20. (currently amended) A method for improving memory or learning ability in a patient, which comprises administering to a patient in need thereof an effective amount of a compound of formula:

$$\begin{array}{c|c}
R^{8} & R^{6} \\
R^{1} & C & C \\
R^{5} & R^{7} \\
R^{5} & R^{7} \\
\end{array}$$

wherein

B is CONR^a, NR^aCO, NR^aCO₂ or NR^aCONR^a; R^a represents hydrogen or (1-6C) alkyl, q is zero or 1; R¹ represents an unsubstituted or substituted aromatic or heteroaromatic group a phenyl substituted by thienyl;

R² represents hydrogen, (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-6C)alkyl, chloro(1-6C)alkyl, (2-6C)alkenyl, (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkylCO₂(1-4C)alkyl, phenyl(1-6C)alkyl, heteroaromatic, phenyl which is unsubstituted or substituted by halogen, (1-4C)alkyl or (1-4C)alkoxy, or a group of formula R³R⁴N in which R³ and R⁴ each independently represents (1-4C)alkyl or, together with the nitrogen atom to which they are attached form an azetidinyl, pyrrolidinyl, piperidinyl, morpholino, piperazinyl, hexahydroazepinyl or octahydroazocinyl group; and

R⁵, R⁶, and R⁷ represent hydrogen;

R⁸ represents methyl;

R⁵, R⁶, R⁷ and R⁸ are each independently selected from the group consisting of hydrogen, (1-6C)alkyl; aryl(1-6C)alkyl; (2-6C)alkenyl; aryl(2-6C)alkenyl and aryl; or

two of R⁵, R⁶, R⁷ and R⁸ together with the carbon atom or carbon atoms to which they are attached form a (3–8C) carbocyclic ring; and the remainder of R⁵, R⁶, R⁷ and R⁸ represent hydrogen; or a pharmaceutically acceptable salt thereof.

with the proviso that when R² represents R³R⁴N, then B is other than NR^aCONR^a or CONR^a.

21. (cancelled)